CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set alk 2002 0053 Cheshire Monitoring Study
PM 10

- Chain-of-Custody
- Analysis Request Form(s)*
- □ Sample Tags
- Transmittal Report w/signatures of the following:
 - Analyst (s)
 - Peer Reviewer
 - Environmental Data Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Julia Juffin 4-10-02

Data Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date:

APR 1 0 2002

Subject:

Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From:

Edgar Santiago, Chemist

Region 5 Central Regional Laboratory

To:

ttached are the results for:

CHESHIRE MONITORING STUDY

CRL data set number: 20020053

Samples analyzed for: Suspended Particles

Results are reported for sample designations: 2002AH40D01, 2002AH40S01, 2002AH40S02,

and 2002AH40S03.

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D-4-	11	C 1: 4	1 D-4-	D 1
Data	Management	Coordinator	and Date	Received

Date Transmitted:

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin Data Management Coordinator Region 5 Central Regional Laboratory ML-10C

Received by and Date

Comments:

ENVIRONMENTAL PROTECTION AGENCY

Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 5 77 West Jackson Boulevard Chicago, Illinois 60604

PROJ. 02AH4		PROJEC Cheshire			44	7					7,	Activity Code: 12345
SAMPLER Mike Murp	RS: (Prin	t Name a	and	Sign			NO. OF	a n A	y e/	//		AIR 2002 00153
STA. NO.	DATE	TIME	COSp	GRAB	0	ON LOCATION	CON- TAINERS	A				TAG NUMBERS
D01	3/27	00:00	Х		GHS		1		1000	*		5-340184 1 to 1
S02	3/27	00:00	Х		RVHS		1					5-340185 1 to 1
SO1	3/27	00:00	Х		GHS		1		. 881.	100		5-340183 1 to 1
SO3	3/27	00:00	X		ADDAVILLE		1	520			-	5-340186 1 to 1
					- Annex	7	42				-	GHS#3012 PSTG AVG = 18.75
					- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	11	3			8		GHS # 3012 PSTG AUG = 18.75 GHS # 3013 PSTg AUG = 18.8

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					\$		5-140048	5				

Sampler Mike Murphy	4 4				
Cooler ID 1	Page 5-1400)45			
Sample ld: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH40D01 D01	27/03/2002 00:00:00	○ Grab Com	GHS	1	5-340184 1 to 1
Bottle No. 1	Parameter PM10	ž ž	R 2	24	
Sample Id: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH40S02 S02	27/03/2002 00:00:00	Grab Com	RVHS	1	5-340185 1 to 1
Bottle No. 1	Parameter PM10	4			
Sample Id: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH40SO1 SO1	27/03/2002 00:00:00	○ Grab Com	GHS	- 1	5-340183 1 to 1
Bottle No. 1	Parameter PM10		***************************************		
Sample ld: Station	Date / Time	Grab / Comp	Station Location	No Bottles	Tag Numbers
02AH40SO3 SO3	27/03/2002 00:00:00	◯ Grab Com	ADDAVILLE	1	5-340186 1 to 1
Bottle No. 1	Parameter PM10	÷			NI

ENVIRONMENTAL PROTECTION AGENCY REGION V

CENTRAL REGIONAL LABORATORY FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION SAMPLING DATE: 03/27/2002 LAB ARRIVAL DATE: 04/04/2002 DUE DATE: 04/25/2002

DU NUMBER: 90101A DATA SET NUMBER: 20020053 STUDY: CHESHIRE MONITORING STUDY PRIORITY: 1 LABORATORY: CRL.

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH40D01	GUIDING HANDS SCHOOL	0.0156			
2	2002AH40S01	GUIDING HANDS SCHOOL	0.0162		8	
3	2002AH40S02	RVHS	0.0168	504		
4	2002AH40S03	ADDAVILLE	0.0194		0 100	
DATE OF ANALYSIS			04/08- 09/2002			
ANALYST			6.8			

Reviewed by:	Date: 4/9/2002	Page 1 of 1

CRL SOP: HK015	Date: 07 January 2000	Revision No: 1
Data review for the Analytical and	Inorganic Group	Page 9 of 9

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Parameter:	1M10	Facility: CHESP/16E CRL.SOP: A16 04 7		
	Packa	age Overview:	YES	NO
Raw Data Packa	ige Complete?			
Results Reported	d Correctly?			
Special Requests	s Done?		MA	
Calculations Che	ecked?			
Calibration Not	Exceeded?		MA	
Manual Peak Int	tegration performed? Cir	rcle one IC or GC and Check	NA	
Field QC Check	red?	\$ CF	MIT	13-13-20-2
	7/	Quality Control:		
Holding Times 1	Met?	6		***************************************
Preservation Che	ecked?		JA	
Proper Digestion	n Verified?		Mr	
Initial Instrumen	nt Performance Checks V	Verified?		
Calibration Veri	ification Checked?	CONTRACTOR	MA	
Sample-Specific	c QC (Internal Standards	s or Analytical Spikes) Okay?	W/A	
Matrix QC Chec	cked?	d.	MA	
Digestion Blank	ts Checked?	- Annie de la company de la co	Va	
Spiked Blank Cl	hecked?		MA	
LCS (if applicat	ole) Checked?		NA	7
QCS (if applical	ble) Checked?	0	NA	
		Final Check		(material material ma
Technical Revie	ew Done?	<u> </u>		
Narrative Comp	lete?	550 1:5000.2 5400.2 5-5.		
Analyst:	5-8-	Peer Reviewer: TVT A		
Date:	4/9/02	Date: 4/9/20.02		
9T	[8]	Comments Attached? (Y/N) N		

Data Set Number:	20020053	Pa	rameter:	Suspende	d Particles	
Facility Name:	CHESHIRE MONI	TORING	STUDY		(4)	
Study Name:	CHESHIRE MONI	TORING	STUDY	¥		
Date of Narrative:	04/09/2002		Analyst:	<u>ES</u>	~ ~	*
5-800			Signature:		65	

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on April 04, 2002. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6279978	2002AH40D01	5-340184
Q6279974	2002AH40S01	5-340183
Q6279979	2002AH40S02	5-340185
Q6279973	2002AH40S03	5-340186

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 04/08/2002 and was completed on 04/09/2002. All exposed filters were in good conditions. No sampler sn number was provided for filters Q6279979 and Q6279973 (CRL sample I.D number 2002AH40S02 and 2002AH40S03.

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS:

All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data.

CHESHIRE AIR MONITORING PROJECT PM10

Parameter: Suspended Particles

Data Set Numbers:

20020052, 20020053

Date of Analysis 03/08- 09/2002

Analyst:

ES

BALANCE VERIFICATION:

Sandard Weights	Balanced weight	Differences	The state of the s
Actual (g)	Balanced (g)	(g)	
		Limit +/-0.0005 g	
1.0000	1.0000	0.0000	
1.0000 2.0000	1.0000	0.0000	

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID	CRL Sample	Analysis	ANALYST	Exposed	
Number	I.D Number	Date		weight (g)	
Q6279978	2002AH40D01	03/09/02	Analyst 1	4.3442	
Q6279978	2002AH40D01	03/09/02	Analyst 2	4.3441	
Differences (Limit +/-	5 mg)		•	0.0001	

CHESHIRE AIR MONITORING PROJECT PM10

Filter ID	CRL Sample	Sampling	Station	Sampler	Pstg	P1/Pa	Total	Pre Weight	Exposed	Weight	PM10
Number	I.D Number	Date	Location	SN	Avg		Volume (M^3)	of filters (g)	weight (g)	Gain	(UG/M^3)
					.,,						·
Data set N	umber 20020053						8				
Q6279978	2002AH40D01	03/27/02	Guiding Hands School	3013	18.80		0.00	4:3286	4.3442	0.0156	ERR
Q6279974	2002AH40S01	03/27/02	Guiding Hands School	3012	18.75		0.00	4.3368	4.3530	0.0162	ERR
Q6279979	2002AH40S02	03/27/02	RVHS		18.65	4	0.00	4.3413	4.3581	0.0168	ERR
Q6279973	2002AH40S03	03/27/02	Addaville		19.50		0.00	4.3615	4.3809	0.0194	ERR

Preservative None Sample ID 02AH40SC1

AN 20020053

Parameters PM10

US EPA Region 5 Field Sample
S-340183-1

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Sampler M. J. Musey Date

Preservative None Sample ID 02AH40D01

AR 242 US3 Parameters PM10

US EPA Region 5 Field Sample

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O ARCODURA ARCO APORD THE LAKE NE ROBS # P T AIR sens coss US EPA Region 5 Field Sample 下 古 所 公 经 5-340185-1 Parameters PM10 M'S SAMPLE WI FINAL WT

Sampler M.J. Muy

Preservative None Sample ID 02AH40S02

Sampler M. 9. Musuf 3-527-02 Date

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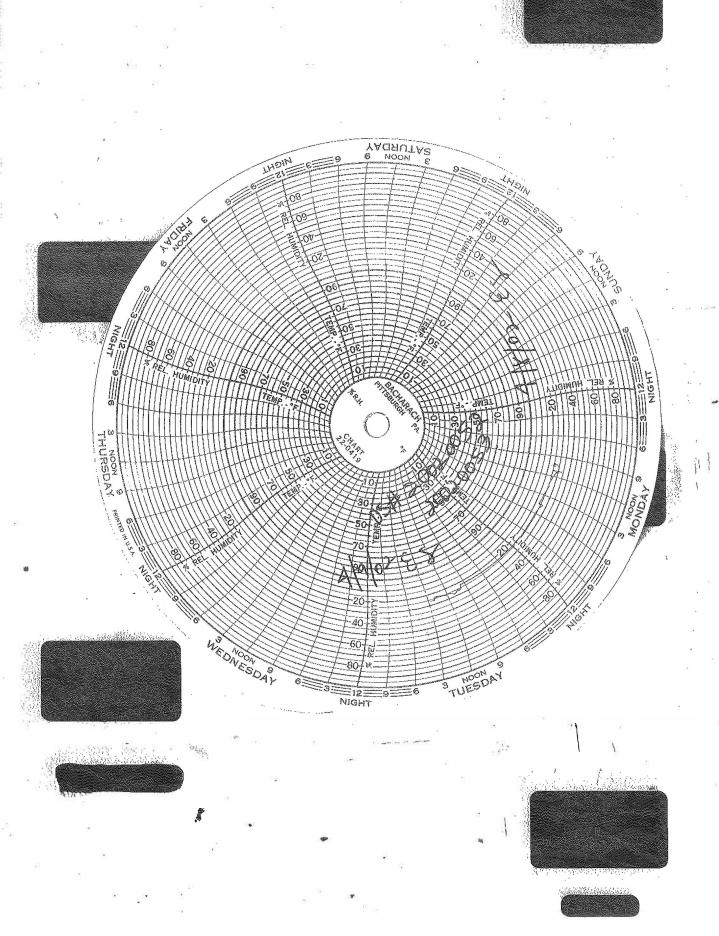
Preservative None Sample ID 02AH40SO3

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Parameters PM10

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